

this manual and operate correctly as mentioned.

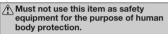
• You should keep this manual at hand for proper use

SPECIFICATIONS Through Beam Retro Reflection Diffused Reflection Terminal Chamber 2m Cable M12 Connector V3R-1000CN,CP V3R-1000CN,CP V4D-130N,P V3D-130N,P V3D-130N,CP Connection Туре Supply Voltage DC10~30V ±10% Current Consumption 5mA max. (Transmitter 5VA,Receiver 4.5VA) 30mA may Red LED (680nm) Light Source 40m 10m / Reflector V-61 1.3m Detecting Distance 20% max Hysteresis Sensitivity Adjustment One turn volume Response Time 0.5ms Indicator Output Indicator (Orange LED) Operating Mode Light ON/Dark ON selectable by Switch NPN/PNP Open collector DC30V, 100mA max Control Output Environmental Sun Light Illuminance ncandescent Light 10,000lx 3,000lx Ambient Temperature -25~55°C 35~85%/RH -40~70°C/35~95%/RH Ambient Humidity Storage Temperature/Humidity Insulation Resistance Min.20M Ω/DC500V Hz amplitude 1.5mm X,Y,Z each 2h 500m/s² X,Y,Z each 3 times Vibration Resistance 10~55Hz Shock Resistance Protection Category IEC144 IP66

OTHER PRECAUTIONS

- O Be careful not to install the sensor at the follwing locations, as it may otherwise malfunction.
- Where a lot of dust, vapor, or the like is present.
 Where corrosive gas is produced.
- . Where water, oil or the like files directly onto the sensor Where strong vibration or shock is caused to the sensor.
- Do not use organic solvent, such as thinner, to remove contaminants from the body case, lid, and lens which are all of prastics. Using a dry rag, just wipe clean.

 When a switching regulator is to be used with a power supply,
- be sure to ground the Frame Ground Terminal. O Do not use the sensor in a transient state at power on. (about
- 100ms)
- O Do not run sensor cable near a high-voltage lines, or power lines or put them together in the same raceway. This warning should be strictly observed to prevent malfuncations caused by inductive interference



HOW TO USE

Terminal Chamber type





①brown—DC10..30V ②hlue—∩V 3black-Control Output

Connection

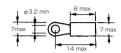
- Install the cables to match the connection terminal No. as shown below. M12 Connector type Ouse either lead-in opening A or B according to the installation method involved.

 - ⊕DC10..30V Install a cover (bolt) the lead-in opeing not to be used.
 The figure below shows how the cables are installed when lead-in opening A is used.
 - %1 Cable packing is selected separately either for cable cover (bolt) according to cable diameter.

Large: φ8~φ10 Small: φ6~φ8 2 Washer is to be used exclusively to the cable bolt



O Dimensions of applicable solderless terminals

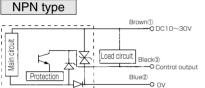


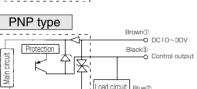
- Use solderless terminals with insulating tube
- OUse 6 to 10 mm diameter cables circular in section to maintain waterightness.
- Wrong wiring may be a cause of burned or damaged sensor. Pay due attention to wiring.
- O Be careful not to install the cable near power lines, for otherwise the sensor may mulfunction.
- Using the mounting accessories supplid, the sensor can be installed on either floor or wall.

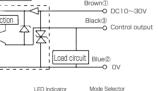
LED Indicator

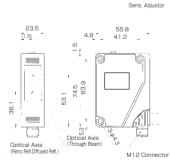
41.2

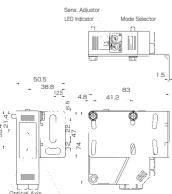
INPUT AND OUTPUT CIRCUIT DIAGRAMS

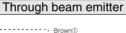


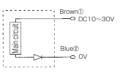


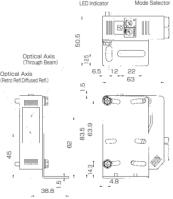




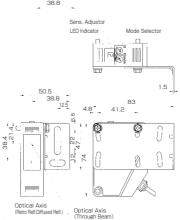




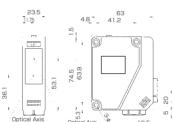


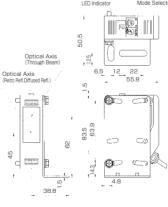


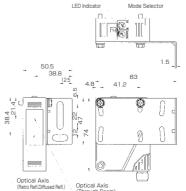
Sens Adjust



DIMENSIONS (Unit mm) LED Indicato







235

Optical Axis (Retro Refl. Diffused Refl.)

Optical Axis

36.1

53.1







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• Specifications and equipment are subject to change without any obligations on the part of manufacture.

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63.9

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• For more information, questions and comments regarding products, please contact us below.

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